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**Geography**  
**Higher level and standard level**  
**Paper 1 – resource booklet**

Wednesday 8 May 2019 (afternoon)

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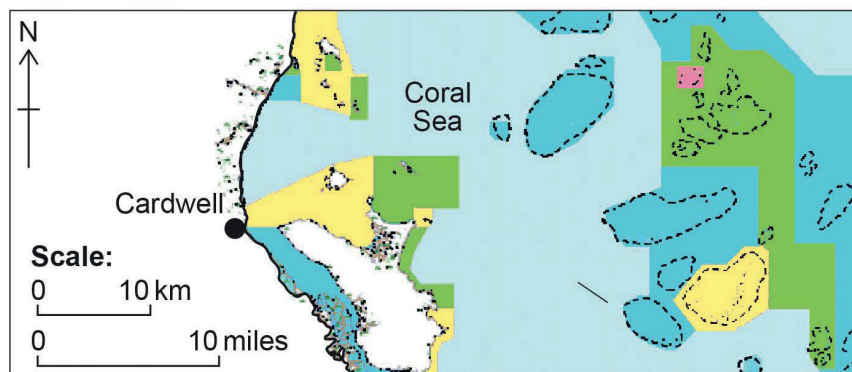
**Instructions to candidates**

- Do not open this booklet until instructed to do so.
- This booklet accompanies paper 1.

### Option B — Oceans and coastal margins

3. The table and map show management zones created to control human activities along a nation's coastal margin that includes coral reefs.

Activities allowed in different zones	Aquaculture	Diving	Line fishing	Research	Tourism
General Use Zone	Permit	✓	✓	Permit	Permit
Habitat Protection Zone	Permit	✓	✓	Permit	Permit
Conservation Use Zone	Permit	✓	✓	Permit	Permit
Marine National Park Zone	X	✓	X	Permit	Permit
Preservation Zone	X	X	X	Permit	X

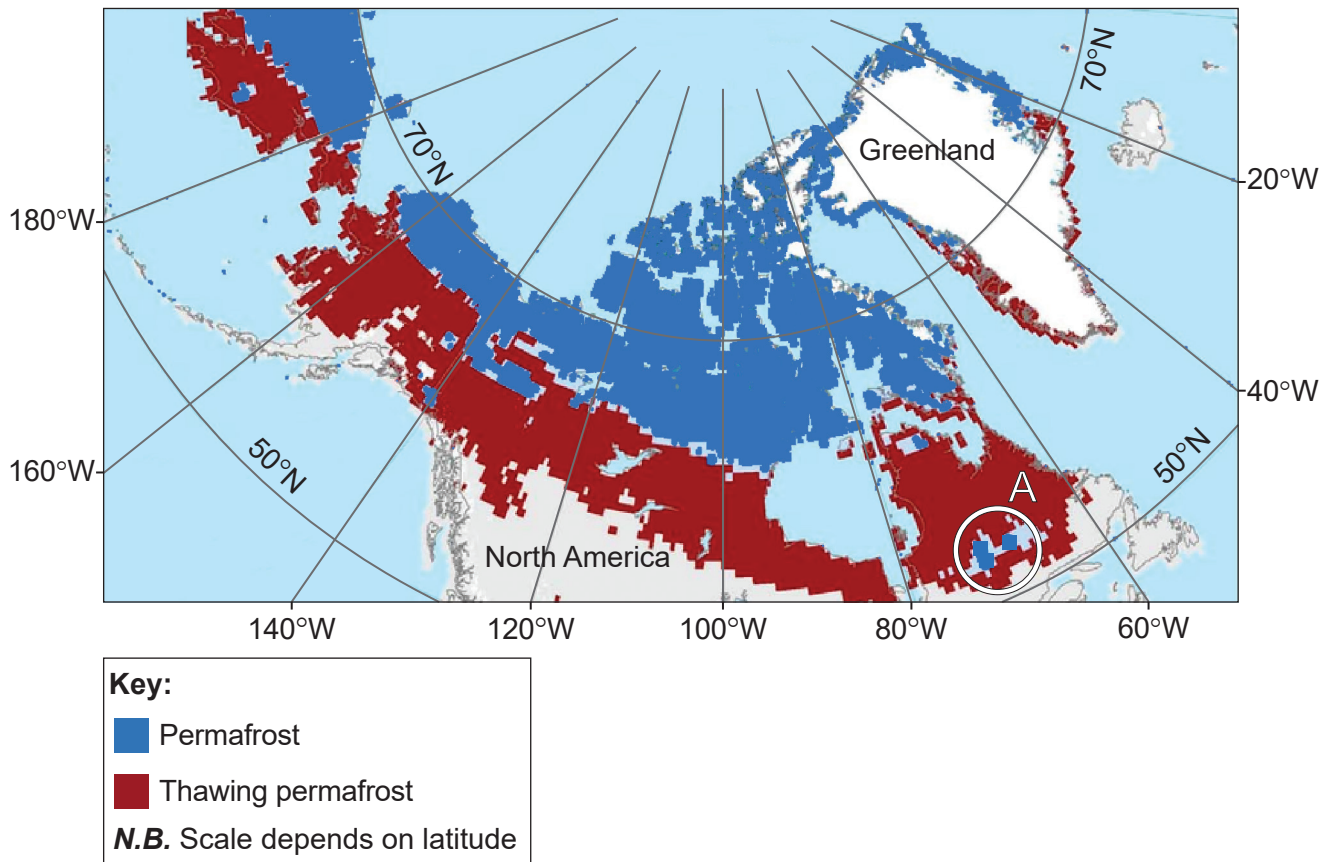


<b>Key:</b>	
	Shoreline
	Submerged coral reef
Permit	Allowed but permission must be given
✓	Always allowed
X	Never allowed

[Source: Table: adapted from the Great Barrier Reef Marine Park Activity Matrix © Commonwealth of Australia (GBRMPA) 2005  
Map: adapted from the Great Barrier Reef Marine Park Zoning Plan © Commonwealth of Australia (GBRMPA) 2005]

**Option C — Extreme environments**

5. The map shows predicted permafrost conditions in Greenland and North America in 2080.



[Source: Dr. Sergey Marchenko, Geophysical Institute, University of Alaska Fairbanks, USA]



**Option E — Leisure, tourism and sport**

9. The aerial photograph shows a growing coastal tourist destination in a middle-income country.



**Scale:**

0 500 m

[Source: DigitalGlobe via Getty Images]

**Option F — Food and health**

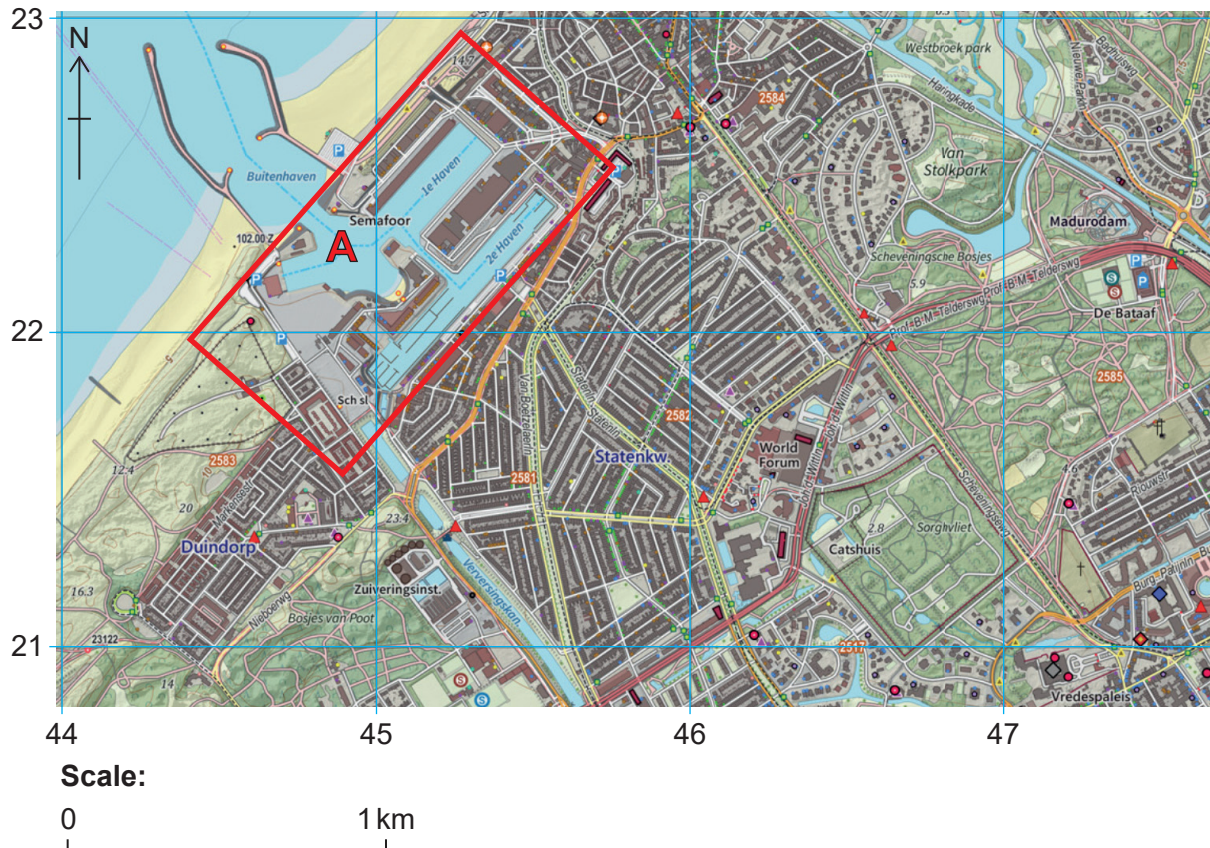
- 11.** The diagram shows projected changes in the total number of affluent people (those earning US\$10 a day or more) and their distribution for four world regions between 2009 and 2030.

Removed for copyright reasons



## Option G — Urban environments






13. The map shows part of Den Haag (a post-industrial city in Europe).









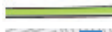
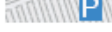



[Source: adapted from Janwillemvanaalst/Wikimedia file licensed under CC BY-SA 3.0  
(<https://creativecommons.org/licenses/by-sa/3.0/deed.en>)]

**Key:**



**Buildings**

-  Low rise, high rise
-  Year of construction, old to new
-  Greenhouse, oil tank
-  Retail, office, education
-  Industry, lodging, sports








**Roads**

-  Trunk
-  Primary road
-  Secondary road
-  Tertiary road
-  Street, paved road
-  Cycleway, footway/pedestrian
-  Bus lane or bus area
-  Parking
-  Tunnel
-  Bridge on piers
-  Forest track











**Railways**

-  Railway with station
-  Tramway with station





**Hydrography**

-  Water course, over 6 m wide
-  Dam, culvert (siphon)
-  Ferry, nautical nav. route
-  Light beacon, mooring
-  Quays, dock
-  Kilometre mark along water
-  Jetty, breakwater













**Terrain**

-  Arable land
-  Built-up area: residential
-  Built-up area: industrial
-  Tree nursery, garden centre
-  Deciduous forest
-  Coniferous forest
-  Mixed forest
-  Osier, willow
-  Meadow, grasslands
-  Sand, dune

**Towers**

-  Tower, church tower
-  Water tower, lighthouse
-  Radar tower, radio tower
-  Air traffic control, viewpoint

**Miscellaneous symbols**

-  Flare pipe, high chimney
-  Church, mosque, synagogue
-  Other religion, pumping station
-  Gas station, swimming pool
-  Wind turbine, landmark
-  Windmill, windpump
-  Telecom mast; C2000 mast
-  Monument, cemetery
-  Camping, chapel, cross
-  Sports, golf, skating, tennis
-  Telescope, telecom masts
-  Cycling waymark, bus stop



**Labels**

-  ZIP code area

**Amenities**

-  Provincial hall, town hall
-  Fire station, ambulance
-  Police, milit. police, call centre
-  Civil service, palace
-  Military
-  Hospital, mental institution
-  Courthouse, prison
-  Juvenile prison, public health
-  Water rescue, water rescue

**Hazardous locations**

-  BRZO (high-impact risk)
-  Gas; LPG